

SUBMITTAL DATA: PLA-A36BA4 & PUZ-HA36NHA4 (-BS)

36,000 BTU/H CEILING-CASSETTE HYPER HEAT-PUMP SYSTEM

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For ☐ Reference ☐ Approval ☐ Construction	
System Designation:	Schedule No.:	



Indoor Unit: PLA-A36BA4



Outdoor Unit: PUZ-HA36NHA4 (-BS)

GENERAL FEATURES

- High heating capacity at low outside temperatures
- Exhibits 100% of rated heating capacity at 5°F; 90% of rated heating capacity at -4°F
- Built-in drain lift mechanism for condensate removal; lifts up to 33-7/16 inches
- Wide air flow pattern for better air distribution; independently adjustable vanes
- Auto wave airflow in heating mode—unit independently cycles through horizontal and vertical positions for a more even heat distribution
- Self-check function—integrated diagnostics
- Limited warranty: five years parts and seven years compressors

UNIT OPTION

- ☐ Standard Model.....PUZ-HA36NHA4
- ☐ Sea Coast (BS) Model.....PUZ-HA36NHA4-BS

OPTIONAL ACCESSORIES

Indoor Unit

- ☐ Multi-function Casement (PAC-SH53TM-E)
- ☐ Air Outlet Shutter Plates (PAC-SH51SP-E)
- ☐ High-efficiency (MERV 10) Filter (PAC-SH59KF-E)

Outdoor Unit

- ☐ M-NET Adapter (PAC-SF80MA-E)
- ☐ Air Outlet Guide (PAC-SG59SG-E; two pieces are required)
- ☐ Wind Baffle (WB-PA2; two pieces are required)

Controller Options

- ☐ Wireless Wall-mounted Remote Controller Kit (MHK1)*
 - ☐ Portable Controller (MCCH1)*
 - ☐ Outdoor Air Sensor (MOS1)*
- *See Submittal for information on each option.
- ☐ Wired Wall-mounted Controller (PAR-21MAAU)
 - ☐ i-see Sensor Corner Panel (PAC-SA1ME-E)
 - ☐ Hand-held Wireless Remote Controller (PAR-FL32MA; req. PAR-FA32MA-E)
 - ☐ Wireless Signal Receiver Module (PAR-FA32MA-E)

SEACOAST PROTECTION

- External Outer Panel: Phosphate coating + Acrylic-Enamel coating
- Fan Motor Support: Epoxy resin coating (at edge face)
- Separator Assembly ; Valve Bed: Epoxy resin coating (at edge face)
- Screws (used outer side): Zinc nickel coating 5µm + Polyvinylidene chloride coating

"Blue Fin" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants..



SPECIFICATIONS: PLA-A36BA4 & PUZ-HA36NHA4 (-BS)

Cooling

Rated Capacity* 34,000 Btu/h
Minimum Capacity 18,000 Btu/h
SEER 17.0 Btu/h/W
Total Input.....2,690 W

Heating at 47°F

Rated Capacity* 38,000 Btu/h
Minimum Capacity 18,000 Btu/h
HSPF (IV).....10.0 Btu/h/W
Total Input.....3,230 W

Heating at 17°F

Rated Capacity* 28,000 Btu/h
Rated Total Input 3,590 W
Maximum Capacity** 38,000 Btu/h
Total Input.....5,300 W

Heating at 5°F

Maximum Capacity** 38,000 Btu/h
Total Input.....5,860 W

* Rating Conditions per AHRI Standard

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
Cooling | Outdoor: 95° F (35° C) DB / 75° F (24° C) WB
Heating at 47°F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 47°F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB
Heating at 17° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB
Heating at 5° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 5° F | Outdoor: 5° F (-15° C) DB / 5° F (-15° C) WB

**** Maximum Capacity is at full speed and performance for INVERTER-driven System.**

ELECTRICAL REQUIREMENTS

Power Supply 208 / 230V, 1-Phase, 60 Hz
Breaker Size.....30 A

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
Indoor - Outdoor S2-S3 DC ±24V
Indoor - Remote Controller..... MKH1 DC 3V
PAR-21MAAU DC 12V
PAR-FL32MA DC 3V

OPERATING RANGE

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	90° F (32° C) DB 73° F (23° C) WB	115° F (46° C) DB
	Minimum	66° F (19° C) DB 59° F (15° C) WB	0° F** (-18° C) DB
Heating	Maximum	83°F (28°C) DB	70° F (21° C) DB 59° F (15° C) WB
	Minimum	63°F (17°C) DB	-13° F (-25° C) DB -13° F (-25° C) WB

Note: With optional wind baffle accessory installed. If not installed, the minimum temperature will be 23° F (-5° C) DB.

INDOOR UNIT

Fan Motor (ECM) 2.00 F.L.A.
Fan Motor Output 120 W
Airflow (Lo - M1 - M2 - Hi) 710 - 810 - 920 - 1,060 Dry CFM
670 - 770 - 880 - 1,030 Wet CFM
Sound Pressure Level (Lo - M1 - M2 - Hi) ...32 - 34 - 37 - 40 dB(A)

DIMENSIONS	UNIT INCHES / MM	PANEL INCHES / MM
W	33-1/16 / 840	37-3/8 / 950
D	33-1/16 / 840	37-3/8 / 950
H	11-3/4 / 295	1-3/8 / 35

Weight (Unit/Grille)

lbs..... 55 / 13
kg..... 25 / 6
External Finish Munsell No. 6.4 8.9 / 0.4
Field Drainpipe Size O.D..... 1-1/4" / 32 mm

OUTDOOR UNIT

Compressor DC Inverter-driven Scroll
MCA 28 A
Fan Motor (ECM) 0.4 + 0.4 F.L.A.
Sound Pressure Level
Cooling 52 dB(A)
Heating 53 dB(A)

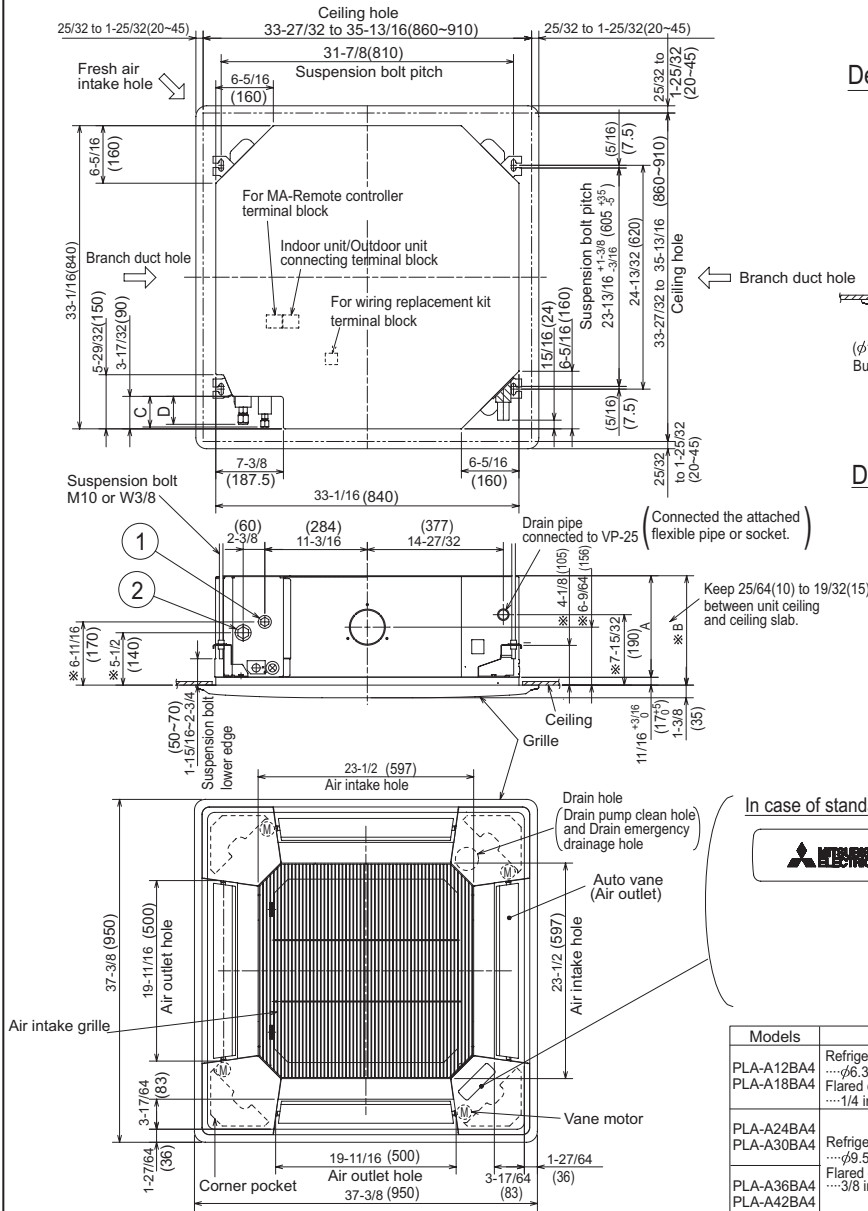
DIMENSIONS	INCHES / MM
W	37-3/8 / 950
D	13 + 1-3/16 / 330 + 30
H	53-1/8 / 1,350

Weight 265 lbs. / 120 kg
External Finish Munsell No. 3Y 7.8 / 1.1
Refrigerant Type..... R410A
Refrigerant Pipe Size O.D.
Gas Side 5/8" / 15.88 mm
Liquid Side.....3/8" / 9.52 mm
Max. Refrigerant Pipe Length..... 245' / 75 m
Max. Refrigerant Pipe Height Difference 100' / 30 m
Connection Method Flared

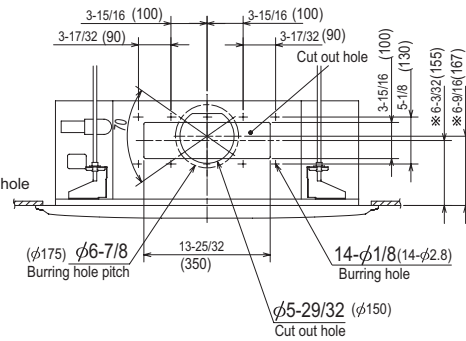
Notes:

DIMENSIONS: PLA-A36BA4

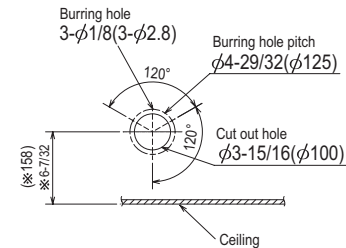
Unit : inch(mm)



Detail connecting of Branch duct(Both aspects)



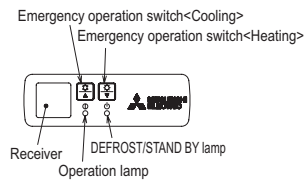
Detail drawing of fresh air intake hole



In case of standard grille



In case of IR wireless remote controller



Models	①	②	A	B	C	D
PLA-A12BA4 PLA-A18BA4	Refrigerant pipe ...φ6.35 Flared connection ...1/4 inch	Refrigerant pipe ...φ12.7 Flared connection ...1/2 inch	9-1/2 (241)	10-3/16 (258)	3-5/32 (80)	2-29/32 (74)
PLA-A24BA4 PLA-A30BA4	Refrigerant pipe ...φ9.52 Flared connection ...3/8 inch	Refrigerant pipe ...φ15.88 Flared connection ...5/8 inch				
PLA-A36BA4 PLA-A42BA4			11-1/16 (281)	11-3/4 (298)	3-11/32 (85)	3-1/32 (77)

Note1. As for drain pipe, please use VP-25(O.D. φ1-1/4(φ32) PVC TUBE).
Drain pump is included.

Max. lifting height is 70-7/18(850mm) from the ceiling.

2. As for suspension bolt, please use M10 or W3/8.(Procured at local site)

3. Electrical box may be removed for the service purpose.

Make sure to slack the electrical wire little bit for control/power wires connection.

4. The height of the indoor unit is able to be adjusted with the grille attached.

5. For the installation of the optional high efficiency filter or optional multi-functional casement.

1) Add 5-5/16(135mm) to the dimensions * marked on the figure.

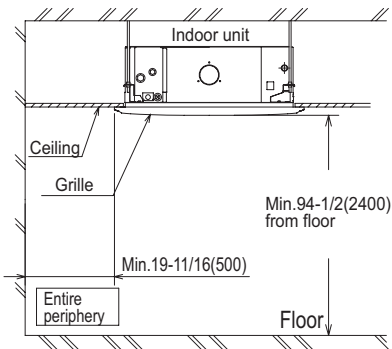
2) The optional high efficiency filter must be used jointly with the multi-functional casement.

6. When installing the branch ducts, be sure to insulate adequately.

Otherwise condensation and dripping may occur.

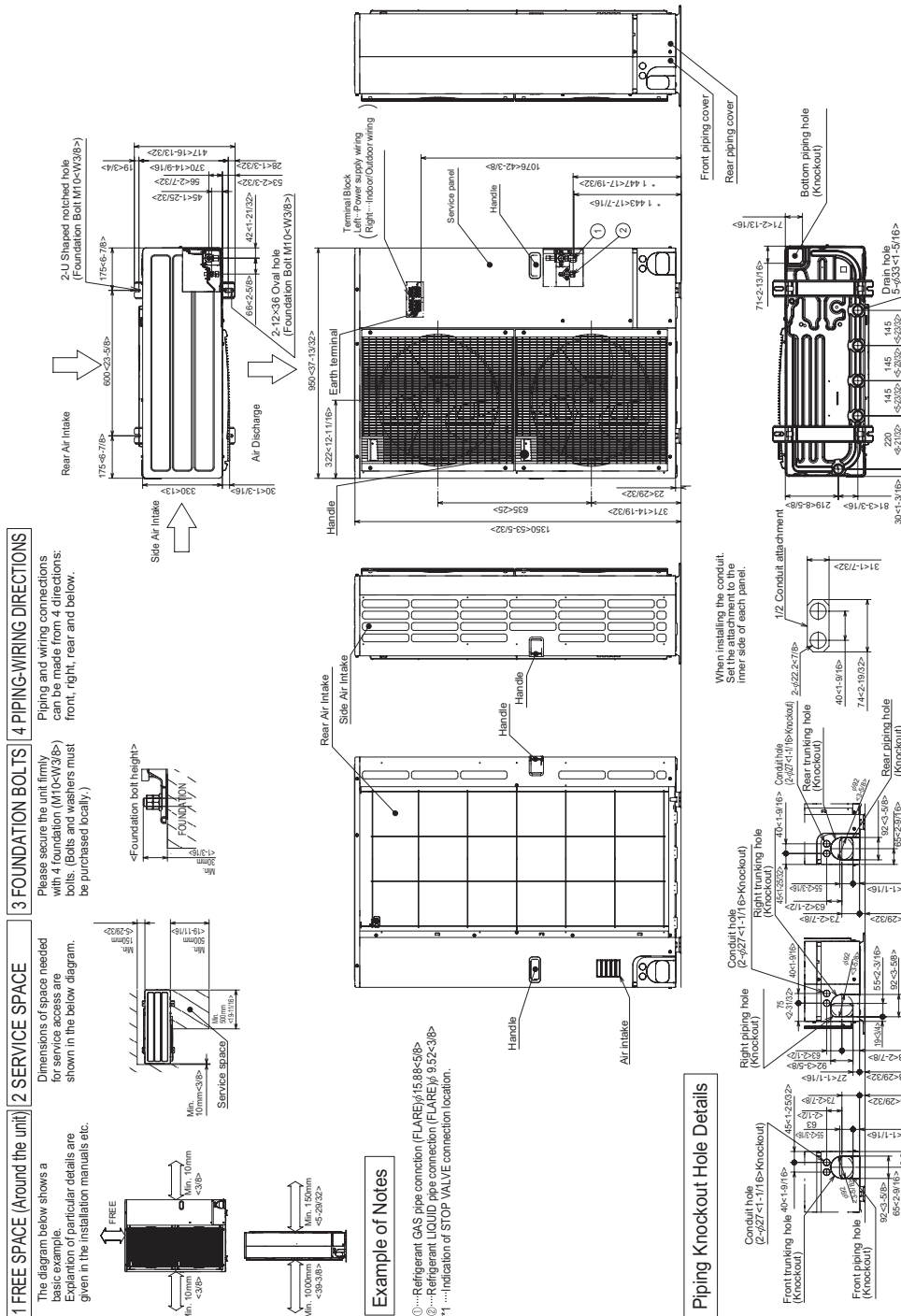
(It becomes the cause of dew drops/water dew.)

7. As for necessary installation/service space, please refer to the left figure.

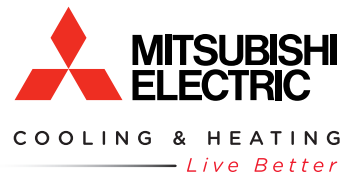


DIMENSIONS: PUZ-HA36NHA4 (-BS)

Unit : mm<inch>



Intertek



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